

Title (en)

A solid-state image sensor provided with an improved color filter.

Title (de)

Festkörper-Bildabtaster mit Farbfilter.

Title (fr)

Dispositif d'analyse d'image du type à l'état solide comportant un filtre coloré.

Publication

EP 0141167 A1 19850515 (EN)

Application

EP 84110681 A 19840907

Priority

JP 16449383 A 19830907

Abstract (en)

The solid-state image sensor includes a color filter covering a solid-state imaging device and having at least three kinds of filter elements arranged in rows and columns. All the filter elements transmit all of the three primary color lights at transmittances such that, in selected two kinds of filter elements, the transmittances for two of the three lights are same but the transmittances for the remaining one light are different. The examples of such filter elements are yellow filters transmitting 20 to 80 per-cent of blue light, cyan filters transmitting 20 to 80 per-cent of red light and green filters transmitting 20 to 80 per-cent of blue and red lights.

IPC 1-7

H04N 9/07

IPC 8 full level

G02B 5/20 (2006.01); **H01L 27/14** (2006.01); **H01L 27/148** (2006.01); **H04N 23/12** (2023.01)

CPC (source: EP US)

G02B 5/201 (2013.01 - EP US); **H04N 25/133** (2023.01 - EP US); **H04N 25/134** (2023.01 - EP US)

Citation (search report)

- [A] DE 2904813 A1 19790816 - HITACHI LTD
- [A] PATENT ABSTRACTS OF JAPAN, unexamined applications, E field, vol. 7, no. 58, March 10, 1983 THE PATENT OFFICE JAPANESE GOVERNMENT page 6 E 163 & JP-A-57-203 387 (A) (tokyo shibaura denki)
- [A] PATENT ABSTRACTS OF JAPAN, unexamined applications, E field, vol. 6, no. 200, October 9, 1982 THE PATENT OFFICE JAPANESE GOVERNMENT page 123 E 135 & JP-A-57-109 488 (A) (matsushita)

Cited by

EP0164255A3; EP0247562A1; EP0485221A3; EP0403850A3

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

US 4652911 A 19870324; DE 3475687 D1 19890119; EP 0141167 A1 19850515; EP 0141167 B1 19881214; JP H0225593 B2 19900604; JP S6055781 A 19850401

DOCDB simple family (application)

US 64774284 A 19840906; DE 3475687 T 19840907; EP 84110681 A 19840907; JP 16449383 A 19830907